

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 10/572,189  
Source: IFL0P  
Date Processed by STIC: 04/06/2006

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT  
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/572, 189

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1  Wrapped Nucleics  
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2  Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3  Misaligned Amino Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4  Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5  Variable Length Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6  PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7  Skipped Sequences (OLD RULES) Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8  Skipped Sequences (NEW RULES) Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

9  Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10  Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11  Use of <220> Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

12  PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13  Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/572,189

DATE: 04/06/2006  
TIME: 10:45:48

Input Set : A:\Sequence Listing (13111-00033-US).txt  
Output Set: N:\CRF4\04062006\J572189.raw

3 <110> APPLICANT: Ostermann, Kai  
4 Rodel, Gerhard  
6 <120> TITLE OF INVENTION: SECRETION OF PROTEINS FROM YEASTS  
8 <130> FILE REFERENCE: 13111-00033-US  
---> 10 <140> CURRENT APPLICATION NUMBER: US/10/572,189  
---> 10 <141> CURRENT FILING DATE: 2006-03-15  
10 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/010346  
11 <151> PRIOR FILING DATE: 2004-09-15  
13 <150> PRIOR APPLICATION NUMBER: DE 103 42 794.5  
14 <151> PRIOR FILING DATE: 2003-09-16  
16 <160> NUMBER OF SEQ ID NOS: 56  
18 <170> SOFTWARE: PatentIn version 3.3  
20 <210> SEQ ID NO: 1  
22 <211> LENGTH: 171  
24 <212> TYPE: DNA  
26 <213> ORGANISM: Schizosaccharomyces pombe  
29 <220> FEATURE:  
31 <221> NAME/KEY: CDS  
33 <222> LOCATION: (1)..(171)  
35 <400> SEQUENCE: 1  
36 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc 48  
37 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
38 1 5 10 15  
40 tca cct att cca gtt gcc gat cct ggt gtg gtt tca gtt agc aag tca 96  
41 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser  
42 20 25 30  
44 tat gct gat ttc ctt cgt gtt tac caa agt tgg aac act ttt gct aat 144  
45 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn  
46 35 40 45  
48 cct gat aga ccc aac ttg aaa aag cgc 171  
49 Pro Asp Arg Pro Asn Leu Lys Lys Arg  
50 50 55  
53 <210> SEQ ID NO: 2  
55 <211> LENGTH: 57  
57 <212> TYPE: PRT  
59 <213> ORGANISM: Schizosaccharomyces pombe  
62 <400> SEQUENCE: 2  
64 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
65 1 5 10 15  
68 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser  
69 20 25 30  
72 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn  
73 35 40 45

Does Not Comply  
Corrected Diskette Needed

(Pj-5)

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/572,189

DATE: 04/06/2006  
TIME: 10:45:48

Input Set : A:\Sequence Listing (13111-00033-US).txt  
Output Set: N:\CRF4\04062006\J572189.raw

76 Pro Asp Arg Pro Asn Leu Lys Lys Arg  
77 50 55  
80 <210> SEQ ID NO: 3  
82 <211> LENGTH: 60  
84 <212> TYPE: DNA  
86 <213> ORGANISM: Schizosaccharomyces pombe  
90 <220> FEATURE:  
92 <221> NAME/KEY: CDS  
94 <222> LOCATION: (1)..(60)  
97 <220> FEATURE:  
99 <221> NAME/KEY: sig\_peptide  
101 <222> LOCATION: (1)..(60)  
105 <400> SEQUENCE: 3 48  
106 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc 48  
107 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
108 1 5 10 15  
110 tca cct att cca 60  
111 Ser Pro Ile Pro  
112 20  
115 <210> SEQ ID NO: 4  
117 <211> LENGTH: 20  
119 <212> TYPE: PRT  
121 <213> ORGANISM: Schizosaccharomyces pombe  
124 <400> SEQUENCE: 4  
126 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
127 1 5 10 15  
130 Ser Pro Ile Pro  
131 20  
134 <210> SEQ ID NO: 5 48  
136 <211> LENGTH: 81  
138 <212> TYPE: DNA  
140 <213> ORGANISM: Schizosaccharomyces pombe  
143 <220> FEATURE:  
145 <221> NAME/KEY: CDS  
147 <222> LOCATION: (1)..(81)  
150 <400> SEQUENCE: 5 81  
151 aag tca tat gct gat ttc ctt cgt gtt tac caa agt tgg aac act ttt 48  
152 Lys Ser Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe  
153 1 5 10 15  
155 gct aat cct gat aga ccc aac ttg aaa aag cgc  
156 Ala Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg  
157 20 25  
160 <210> SEQ ID NO: 6  
162 <211> LENGTH: 27  
164 <212> TYPE: PRT  
166 <213> ORGANISM: Schizosaccharomyces pombe  
170 <400> SEQUENCE: 6  
172 Lys Ser Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe  
173 1 5 10 15

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/572,189

DATE: 04/06/2006  
TIME: 10:45:48

Input Set : A:\Sequence Listing (13111-00033-US).txt  
Output Set: N:\CRF4\04062006\J572189.raw

176 Ala Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg  
177 20 25  
180 <210> SEQ ID NO: 7  
182 <211> LENGTH: 78  
184 <212> TYPE: DNA  
186 <213> ORGANISM: Schizosaccharomyces pombe  
190 <220> FEATURE:  
192 <221> NAME/KEY: CDS  
194 <222> LOCATION: (1)..(78)  
198 <220> FEATURE:  
200 <221> NAME/KEY: sig\_peptide  
202 <222> LOCATION: (1)..(60)  
206 <400> SEQUENCE: 7  
207 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc 48  
208 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
209 1 5 10 15  
211 tca cct att cca gtt gcc gat cct ggt gtg 78  
212 Ser Pro Ile Pro Val Ala Asp Pro Gly Val  
213 20 25  
216 <210> SEQ ID NO: 8  
218 <211> LENGTH: 26  
220 <212> TYPE: PRT  
222 <213> ORGANISM: Schizosaccharomyces pombe  
226 <400> SEQUENCE: 8  
228 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
229 1 5 10 15  
232 Ser Pro Ile Pro Val Ala Asp Pro Gly Val  
233 20 25  
236 <210> SEQ ID NO: 9  
238 <211> LENGTH: 606  
240 <212> TYPE: DNA  
242 <213> ORGANISM: Schizosaccharomyces pombe  
246 <220> FEATURE:  
248 <221> NAME/KEY: CDS  
250 <222> LOCATION: (1)..(606)  
254 <400> SEQUENCE: 9  
255 atg aag atc acc gct gtc att gcc ctt tta ttc tca ctt gct gct gcc 48  
256 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
257 1 5 10 15  
259 tca cct att cca gtt gcc gat cct ggt gtg gtt tca gtt agc aag tca 96  
260 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser  
261 20 25 30  
263 tat gct gat ttc ctt cgt gtt tac caa agt tgg aac act ttt gct aat 144  
264 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn  
265 35 40 45  
267 cct gat aga ccc aac ttg aaa aag cgc gaa ttc gaa gct gct ccc gca 192  
268 Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala Pro Ala  
269 50 55 60  
271 aaa act tat gct gat ttc ctt cgt gct tat caa agt tgg aac act ttt 240

Input Set : A:\Sequence Listing (13111-00033-US).txt  
Output Set: N:\CRF4\04062006\J572189.raw

272 Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser Trp Asn Thr Phe  
273 65 70 75 80  
275 gtt aat cct gac aga ccc aat ttg aaa aag cgt gag ttt gaa gct gcc 288  
276 Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala  
277 85 90 95  
279 cca gag aag agt tat gct gat ttc ctt cgt gct tac cat agt tgg aac 336  
280 Pro Glu Lys Ser Tyr Ala Asp Phe Leu Arg Ala Tyr His Ser Trp Asn  
281 100 105 110  
283 act ttt gtt aat cct gac aga ccc aac ttg aaa aag cgc gaa ttc gaa 384  
284 Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu  
285 115 120 125  
287 gct gct ccc gca aaa act tat gct gat ttc ctt cgt gct tac caa agt 432  
288 Ala Ala Pro Ala Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser  
289 130 135 140  
291 tgg aac act ttt gtt aat cct gac aga ccc aac ttg aaa aag cgc act 480  
292 Trp Asn Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Thr  
293 145 150 155 160  
295 gaa gaa gat gaa gag aat gag gaa gag gat gaa gaa tac tat cgc ttt 528  
296 Glu Glu Asp Glu Glu Asn Glu Glu Asp Glu Glu Tyr Tyr Arg Phe  
297 165 170 175  
299 ctt cag ttt tat atc atg act gtc cca gag aat tcc act att aca gat 576  
300 Leu Gln Phe Tyr Ile Met Thr Val Pro Glu Asn Ser Thr Ile Thr Asp  
301 180 185 190  
303 gtc aat att act gcc aaa ttt gag agc taa 606  
304 Val Asn Ile Thr Ala Lys Phe Glu Ser  
305 195 200  
308 <210> SEQ ID NO: 10  
310 <211> LENGTH: 201  
312 <212> TYPE: PRT  
314 <213> ORGANISM: Schizosaccharomyces pombe  
318 <400> SEQUENCE: 10  
320 Met Lys Ile Thr Ala Val Ile Ala Leu Leu Phe Ser Leu Ala Ala Ala  
321 1 5 10 15  
324 Ser Pro Ile Pro Val Ala Asp Pro Gly Val Val Ser Val Ser Lys Ser  
325 20 25 30  
328 Tyr Ala Asp Phe Leu Arg Val Tyr Gln Ser Trp Asn Thr Phe Ala Asn  
329 35 40 45  
332 Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala Pro Ala  
333 50 55 60  
336 Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser Trp Asn Thr Phe  
337 65 70 75 80  
340 Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu Ala Ala  
341 85 90 95  
344 Pro Glu Lys Ser Tyr Ala Asp Phe Leu Arg Ala Tyr His Ser Trp Asn  
345 100 105 110  
348 Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Glu Phe Glu  
349 115 120 125  
352 Ala Ala Pro Ala Lys Thr Tyr Ala Asp Phe Leu Arg Ala Tyr Gln Ser  
353 130 135 140

Input Set : A:\Sequence Listing (13111-00033-US).txt  
Output Set: N:\CRF4\04062006\J572189.raw

356 Trp Asn Thr Phe Val Asn Pro Asp Arg Pro Asn Leu Lys Lys Arg Thr  
357 145 150 155 160  
360 Glu Glu Asp Glu Glu Asn Glu Glu Glu Asp Glu Glu Tyr Tyr Arg Phe  
361 165 170 175  
364 Leu Gln Phe Tyr Ile Met Thr Val Pro Glu Asn Ser Thr Ile Thr Asp  
365 180 185 190  
368 Val Asn Ile Thr Ala Lys Phe Glu Ser  
369 195 200

372 <210> SEQ ID NO: 11  
374 <211> LENGTH: 156  
376 <212> TYPE: DNA  
378 <213> ORGANISM: Unknown  
382 <220> FEATURE:  
384 <223> OTHER INFORMATION: to be completed

387 <220> FEATURE:  
389 <221> NAME/KEY: CDS  
391 <222> LOCATION: (1)...(156)  
395 <400> SEQUENCE: 11

396 ctg gtt ccg cgt gga tcc atc gaa ggt cgt ggc ggc cgc atc ttt tac 48  
397 Leu Val Pro Arg Gly Ser Ile Glu Gly Arg Gly Arg Ile Phe Tyr  
398 1 5 10 15  
400 cca tac gat gtt cct gac tat gcg ggc tat ccc tat gac gtc ccg gac 96  
401 Pro Tyr Asp Val Pro Asp Tyr Ala Gly Tyr Pro Tyr Asp Val Pro Asp  
402 20 25 30  
404 tat gca gga tcc tat cca tat gac gtt cca gat tac gct gct cag tgc 144  
405 Tyr Ala Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ala Gln Cys  
406 35 40 45  
408 ggc cgc taa tag 156  
409 Gly Arg  
410 50  
413 <210> SEQ ID NO: 12  
415 <211> LENGTH: 50  
417 <212> TYPE: PRT  
419 <213> ORGANISM: Unknown  
423 <220> FEATURE:  
425 <223> OTHER INFORMATION: to be completed

428 <400> SEQUENCE: 12

430 Leu Val Pro Arg Gly Ser Ile Glu Gly Arg Gly Arg Ile Phe Tyr  
431 1 5 10 15  
434 Pro Tyr Asp Val Pro Asp Tyr Ala Gly Tyr Pro Tyr Asp Val Pro Asp  
435 20 25 30  
438 Tyr Ala Gly Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ala Gln Cys  
439 35 40 45  
442 Gly Arg  
443 50  
446 <210> SEQ ID NO: 13  
448 <211> LENGTH: 354  
450 <212> TYPE: DNA  
452 <213> ORGANISM: Aspergillus nidulans

7 Invalid Response.  
Explains the source of  
genetic material.  
See item 11 on error  
summary sheet.

Same Error

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/572,189

DATE: 04/06/2006  
TIME: 10:45:49

Input Set : A:\Sequence Listing (13111-00033-US).txt  
Output Set: N:\CRF4\04062006\J572189.raw

::10 M:270 C: Current Application Number differs, Replaced Current Application No  
::10 M:271 C: Current Filing Date differs, Replaced Current Filing Date